

Appl. No. 09/309,128
Atty. Docket No. 7258XR
Amdt. Dated March 8, 2005
Amendment to Office Action of February 11, 2005
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-30 (canceled).

31. (Currently Amended) Clear, or translucent liquid fabric softener composition comprising:

- A. from about 2% to about 80% by weight of the composition of a fabric softener;
- B. a principal solvent ~~selected from~~ comprising TMPD ~~having a ClogP of from about -2.0 to about -2.6;~~ present at a level of from about 1% to about 40% by weight of the composition;
- C. from about 0.5 % to about 10% by weight of the composition of electrolyte;
- D. from about 0.1% to about 15% by weight of the composition of phase stabilizer selected from nonionic surfactants derived from saturated and/or unsaturated primary, secondary, and/or branched, amine, amide, amine-oxide fatty alcohol, fatty acid, alkyl phenol, and/or alkyl aryl carboxylic acid compounds having from about 6 to about 22 carbon atoms in a hydrophobic chain, wherein at least one active hydrogen of said compounds is ethoxylated with ≤ 50 ethylene oxide moieties to provide an HLB of from about 8 to about 20; and mixtures thereof.

32. (Previous presented) The composition of Claim 31 wherein said fabric softener is present at a level of from about 13% to about 75% and has a phase transition temperature of less than about 35°C; said principal solvent has a ClogP of from about -1 to about 1.6; and the level of said electrolyte is from about 1% to about 2.5% by weight of the composition.

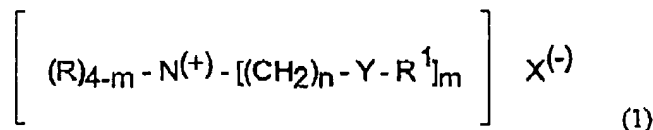
33. (Previous presented) The composition of Claim 32 wherein said fabric softener has a phase transition temperature of less than about 20°C; said principal solvent has a ClogP of from about -1 to about 1; and the level of said electrolyte is from about 1% to about 2% by weight of the composition.

34. (Previous presented) The composition of Claim 33 wherein said fabric softener has a phase transition temperature of less than about 10°C.

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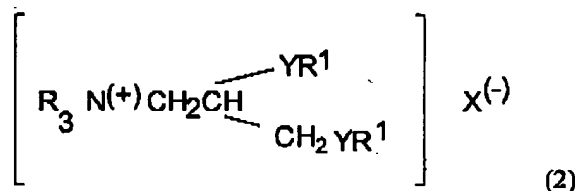
35. (Previous presented) The composition of Claim 31 wherein said fabric softener is biodegradable softener active chosen from:

(A) compounds having the formula:



wherein each R substituent is hydrogen or short chain C₁-C₆ alkyl or hydroxyalkyl group, benzyl, or mixtures thereof; each m is 2 or 3; each n is from 1 to about 4; each Y is -O-(O)C-, -C(O)-O-, -NR-C(O)-, or -C(O)-NR-; each R¹ is a hydrocarbyl, or substituted hydrocarbyl, group, the sum of carbons in each R¹, plus one when Y is -O-(O)C-, being C₁₂-C₂₂; the average Iodine Value of the parent fatty acid of the R¹ group being from about 40 to about 140; and wherein the counterion, X⁻ is any softener-compatible anion;

(B) softener having the formula:

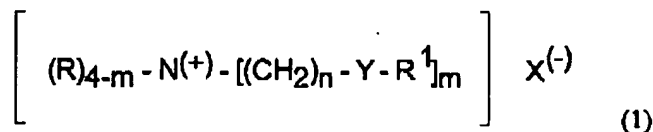


wherein each Y, R, R¹, and X⁽⁻⁾ have the same meanings as before; and

(C) mixtures thereof.

36. (New) The composition of Claim 31 wherein said fabric softener is selected from the group consisting of:

(A) compounds having the formula:

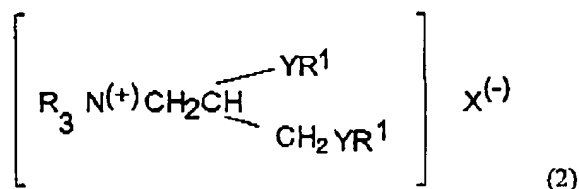


wherein each R substituent is hydrogen or short chain C₁-C₆ alkyl or hydroxyalkyl group, benzyl, or mixtures thereof; each m is 2 or 3; each n is from 1 to about 4; each Y is -O-(O)C-, or -C(O)-O-; each R¹ is a hydrocarbyl, or substituted hydrocarbyl, group, the sum of carbons in each R¹, plus one when Y is -O-(O)C-, being C₁₂-C₂₂; the average Iodine Value of the parent fatty acid of

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the R^1 group being from about 40 to about 140; and wherein the counterion, X^- is any softener-compatible anion;

(B) softener having the formula:

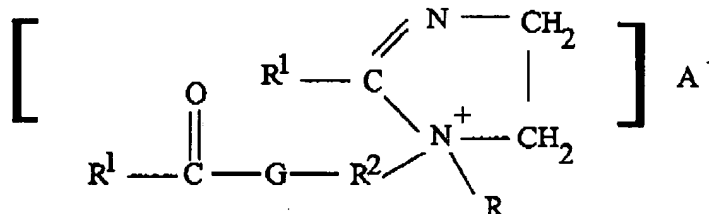


wherein each Y, R, R^1 , and $X^{(-)}$ have the same meanings as before;

(C) softener having the formula:

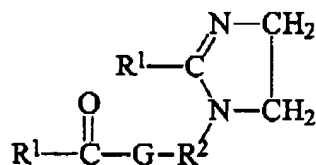
$R_{4-m} - N^{(+)} - R_m^1 A^-$
 wherein each m is 2 or 3, each R^1 is a C_6 - C_{22} , but no more than one being less than about C_{12} and then the other is at least about 16, hydrocarbyl, or substituted hydrocarbyl substituent, where the Iodine Value is from about 70 to about 140 with a cis/trans ratio of from about 1:1 to about 50:1; each R is H or a short chain C_1 - C_6 alkyl or hydroxyalkyl group, group, benzyl, or $(R^2 O)_{0.4}H$ wherein R^2 is a C_{1-6} alkylene group; and A^- is a softener compatible anion;

(D) softener having the formula:



wherein each R, R^1 , and A^- have the definitions given above; each R^2 is a C_{1-6} alkylene group; and G is an oxygen atom or an -NR- group;

(E) softener having the formula:

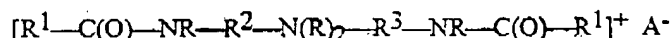


wherein R^1 , R^2 and G are defined as above;

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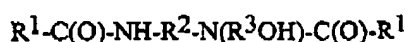
(F) reaction products of substantially unsaturated and/or branched chain higher fatty acids with dialkylenetriamines in, e.g., a molecular ratio of about 2:1;

(G) softener having the formula:



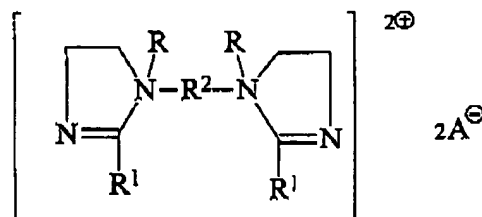
wherein R, R¹, R², R³ and A⁻ are defined as above;

(H) the reaction product of substantially unsaturated and/or branched chain higher fatty acid with hydroxyalkylalkylenediamines in a molecular ratio of about 2:1, said reaction products containing compounds of the formula:



wherein R¹, R² and R³ are defined as above;

(I) softener having the formula:



wherein R, R¹, R², and A⁻ are defined as above; and

(J) mixtures thereof.

37. (Previous presented) The composition of Claim 31, wherein said electrolyte is chosen from: MgI₂, MgBr₂, MgCl₂, Mg(NO₃)₂, Mg₃(PO₄)₂, Mg₂P₂O₇, MgSO₄, magnesium silicate, NaI, NaBr, NaCl, NaF, Na₃(PO₄), NaSO₃, Na₂SO₄, Na₂SO₃, NaNO₃, NaIO₃, Na(PO₄)₃, Na₄P₂O₇, sodium silicate, sodium metasilicate, sodium tetrachloroaluminate, sodium tripolyphosphate, Na₂Si₃O₇, sodium zirconate, CaF₂, CaCl₂, CaBr₂, CaI₂, CaSO₄, Ca(NO₃)₂, KI, KBr, KCl, KF, KNO₃, KIO₃, K₂SO₄, K₂SO₃, K(PO₄)₃, K₄(P₂O₇), potassium pyrosulfate, potassium pyrosulfite, LiI, LiBr, LiCl, LiF, LiNO₃, AlF₃, AlCl₃, AlBr₃, AlI₃, Al₂(SO₄)₃, Al(PO₄)₃, Al(NO₃)₃, aluminum silicate, hydrates of these salts, salts with mixed sodium, potassium, magnesium and/or calcium cations, and mixtures thereof.

38. (Previous presented) The composition of Claim 31, wherein said phase stabilizer is nonionic surfactant derived from an alkyl aryl carboxylic acid compound, wherein said compound

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has from about 8 to about 18 carbon atoms in the alkyl or alkenyl chain and contains from about 5 to about 15 of said ethylene oxide moieties to provide an HLB of from about 10 to about 18.

39. (Previous presented) The composition of Claim 38, wherein said compound contains from about 8 to about 12 of said ethylene oxide moieties to provide an HLB of from about 11 to about 15.

40. (Previous presented) The composition of Claim 31, wherein the electrolyte provides a composition having a G' of ≤ 20 Pa and a G'' of ≤ 6 Pa wherein G' and G'' are measured on dilute solutions with maximum viscosity, the composition having higher G' and G'' without said electrolyte being present.

41. (Previous presented) The composition of Claim 40, wherein G' and G'' are measured over a strain range of 0.1 -1.0.

42. (Previous presented) The composition of Claim 31, wherein:

(A) there is from about 22% to about 45% by weight of the composition of fabric softener which is a diester quaternary ammonium fabric softener;

(B) there is from about 3% to about 7% of said principal solvent;

(C) there is from about 1.5 % to about 3% by weight of the composition of electrolyte; and

(D) there is from about 4% to about 7% by weight of the composition of nonionic surfactant derived from saturated and/or unsaturated primary, secondary, and/or branched, fatty alcohol having from about 8 to about 12 carbon atoms in a hydrophobic chain ethoxylated with from about an average of about 3 to about 10 ethylene oxide moieties and optionally, up to about 1% of a second nonionic surfactant which is a block copolymer comprising blocks of ethylene oxide and propylene oxide.

43. (Previous presented) The composition of Claim 42 wherein:

(A) there is from about 28% to about 35% by weight of the composition of fabric softener which is a diester quaternary ammonium fabric softener derived by reacting fatty acyl source with triethanolamine and quaternizing the reaction product;

(B) there is from about 4% to about 6% of TMPD;

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(C) there is from about 1.75 % to about 2.5% by weight of the composition of electrolyte which is either $MgCl_2$ or mixtures of $MgCl_2$ and $CaCl_2$; and

(D) there is from about 5% to about 6% by weight of the composition of nonionic surfactant derived from saturated primary and/or branched fatty alcohols having from about 9 to about 11 carbon atoms in a hydrophobic chain ethoxylated with from an average of about 7 to about 9 ethylene oxide moieties and from about 0.5% to about 1% of a second nonionic surfactant which is a block copolymer comprising of ethylene oxide and propylene oxide.